



January 15 – February 15, 2005

at the LeRoy Collins Leon County Public Library

Treasure hunt entry form  
GRADES 7-8

Name \_\_\_\_\_ Phone \_\_\_\_\_

School \_\_\_\_\_ Grade \_\_\_\_\_

IMPORTANT!!! READ THE TREASURE HUNT  
INSTRUCTION SHEET BEFORE STARTING.

(It's OK to use the back of the page if you need more space)

1. *Focus on Physics* is an event in honor of the World Year of Physics 2005, which commemorates the 100<sup>th</sup> anniversary of the *Miracle Year* in which Albert Einstein postulated his famous theories. Name the year and the theories he postulated. (You can go to the World Year of Physics website, [www.wyp2005.org](http://www.wyp2005.org) to find the answer or check any of the library's resources on Albert Einstein.)
2. When performing the "Ollie", a famous skateboard move invented by Ollie Gelfand, there are several forces ruling the movement of the skateboard over an obstacle. Name some (or all of those forces). Go to [www.exploratorium.edu/sports](http://www.exploratorium.edu/sports) for help in finding the answer.
3. An Angstrom is a unit of measurement used to measure the sizes of atomic particles. How much (or how little) is an Angstrom in centimeters?
4. Explain the concept of buoyancy and who discovered it. (You can get help from Bill Nye the Science Guy at [www.nyelabs.com](http://www.nyelabs.com), click on Eg (Episode Guides), then choose Physical Science... and you're on your way OR you can use the resources listed on the instruction sheet.)

5. Do birds and insects fly in the same way? Turns out they do, kind of... (Go to [www.sciencenewsforkids.org](http://www.sciencenewsforkids.org) to find the answer, click on Physics...)
6. Lasers are in everything from light shows at rock concerts to surgery to remove cataracts. What are lasers and how do they work? (You can find the answer to this in any science dictionary or encyclopedia OR look for a book on *light* OR go to [www.howstuffworks.com/laser](http://www.howstuffworks.com/laser) )
7. How do magnets work? (Hint: look in the library catalog for a book on *magnets* or *magnetism* OR look it up in one of the resources listed in the instruction sheet)
8. Why is the sky blue? (Hint: any book on *light* will help you find the answer. Besides the resources listed, you can also check out [www.sciencemadesimple.com](http://www.sciencemadesimple.com) , click on “Topics”)
9. The chemical elements which are essential to life are Carbon [C], Nitrogen [N], and Oxygen [O]. Where were these chemicals originally created (Hint: look in an *Astronomy* book or go to [www.bbc.co.uk/science](http://www.bbc.co.uk/science) --use the Search Box on the upper right hand corner to ask the question.)
10. Atoms are made up of protons and neutrons. What are the building blocks of protons and neutrons? (Look *atoms* or *atomic structure* in the resources listed on the instruction sheet OR go to [www.particleadventure.org](http://www.particleadventure.org) , click on “Start Here” )

You are finished. Good work!!

You can mail the completed form to:

LeRoy Collins Leon County Public Library  
Attn. Maria Mena, Focus on Physics Treasure Hunt  
200 West Park Avenue  
Tallahassee, FL 32301

Or drop it by any of the LeRoy Collins Leon County Public Libraries **by Wednesday, February 15, 2005.**